

Name: _____

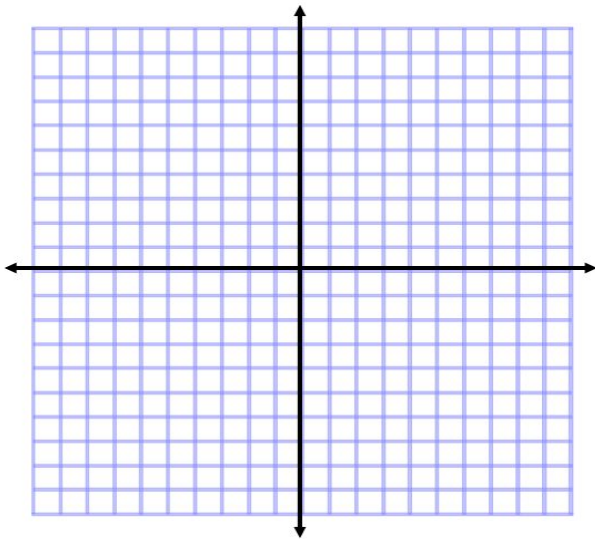
Date: _____

Practice Quiz: Linear Inequalities

Part 1: Graphing: Please be sure to name and extend all lines and be clear as to dashed/solid and the solution zones.

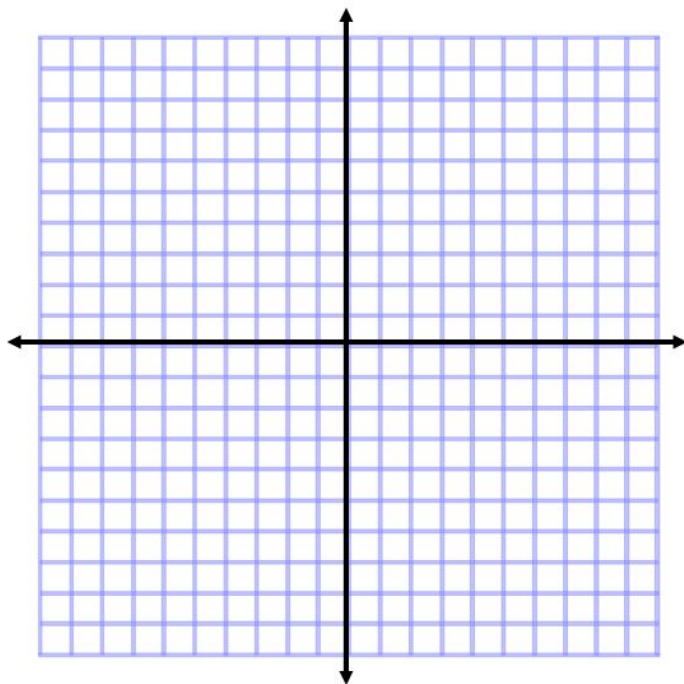
1. Please graph the linear inequality.

$$y \leq 2x - 5$$



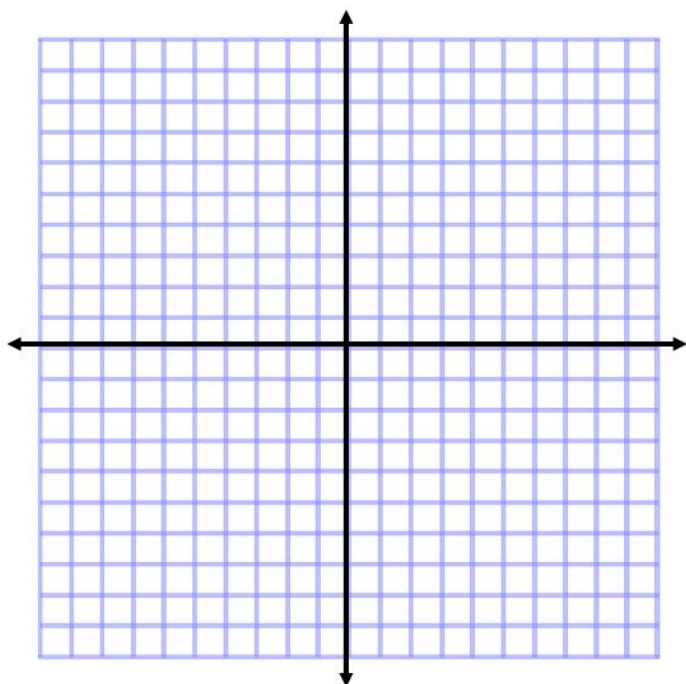
2. Please graph the linear inequality.

$$y \geq -x$$



3. Please graph the **SYSTEM** of linear inequalities.

$$y \geq 2x - 5 \quad \text{and} \quad y < -\frac{3}{4}x + 3$$



Part Two: Algebraic Sentences: Explain your answers using at least TWO algebraic terms and TWO complete sentences. Be sure to echo the prompt and write out all numbers.

4. When is the boundary line of a linear inequality *dashed*? In these cases, is the boundary line part of the solution of linear inequality?

5. Is (1, 19) a solution of $y \geq -x - 18$? EXPLAIN.

Part Three: Circle the best term or phrase in each parentheses.

6. The (algebraic, boundary) line of a linear inequality may be either dashed or solid.

7. A linear inequality describes a (region, point) of the coordinate plane that makes the linear inequality true.

8. To check to see if a coordinate is part of the solution of a linear inequality, we may graph the inequality or use (substitution, elimination) to check algebraically.

9. A system of linear inequalities is (one, two) or more linear inequalities graphed together.

10. A solid boundary line means the points on the boundary line (are, are not) part of the solution.